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GoGear

SA2RGA02

SA2RGA04

SA2RGA08

EN **User manual**

PHILIPS

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English

Need help?
Please visit
www.philips.com/welcome
where you can access a full set of supporting materials such as the user manual, the latest software updates, and answers to frequently asked questions.

1 Important safety information

General maintenance

The translation of this document is for reference only.
In the event of any inconsistency between the English version and the translated version, the English version shall prevail.

Caution

- To avoid damage or malfunction:
- Do not expose the product to excessive heat caused by heating equipment or direct sunlight.
- Do not drop the product or allow objects to fall on your player.
- Do not allow the product to be submerged in water. Do not expose headphone socket or battery compartment to water, as water entering the set may cause major damage.
- Active mobile phones in the vicinity may cause interference.
- Back up your files. Ensure that you retain the original files you have downloaded to your device. Philips is not responsible for any loss of data if the product becomes damaged or not readable / legible.
- Manage (transfer, delete, etc.) your music files only with the supplied music software to avoid problems.
- Do not use any cleaning agents containing alcohol, ammonia, benzene, or abrasives as these may harm the product.

About operating and storage temperatures

- Operate in a place where temperature is always between 0 and 35°C (32 to 95°F)
- Store in a place where temperature is always between -20 and 45°C (-4 to 113°F).
- Battery life may be shortened in low temperature conditions.

Replacement parts/accessories:
Visit www.philips.com/support to order replacement parts/accessories.

Hearing Safety

Listen at a moderate volume:
Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may have already experienced some hearing loss.
Sound can be deceiving. Over time your hearing 'comfort level' adapts to higher volumes of sound. So after prolonged listening, what sounds 'normal' can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level before your hearing adapts and leave it there.
To establish a safe volume level:
Set your volume control at a low setting.
Slowly increase the sound until you can hear it comfortably and clearly, without distortion.
Listen for reasonable periods of time:
Prolonged exposure to sound, even at normally 'safe' levels, can also cause hearing loss.
Be sure to use your equipment reasonably and take appropriate breaks.
Be sure to observe the following guidelines when using your headphones.
Listen at reasonable volumes for reasonable periods of time.
Be careful not to adjust the volume as your hearing adapts.
Do not turn up the volume so high that you can't hear what's around you.
You should use caution or temporarily discontinue use in potentially hazardous situations.
Do not use headphones while operating a motorized vehicle, cycling, skateboarding, etc.; it may create a traffic hazard and is illegal in many areas.

Modifications

Modifications not authorized by the manufacturer may void user's authority to operate the product.

Copyright information

All other brands and product names are trademarks of their respective companies or organizations.

Unauthorized duplication of any recordings whether downloaded from the Internet or made from audio CDs is a violation of copyright laws and international treaties.

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offense. This equipment should not be used for such purposes.

The Windows Media and the Windows logo are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Be responsible! Respect copyrights.

Philips respects the intellectual property of others, and we ask our users to do the same.

Multimedia content on the internet may have been created and/or distributed without the original copyright owner's authorization.

Copying or distributing unauthorized content may violate copyright laws in various countries including yours.

Compliance with copyright laws remains your responsibility.

The recording and transfer to the portable player of video streams downloaded to your computer is intended only for use with public domain or properly licensed content. You may only use such content for your private, non-commercial use and shall respect eventual copyright instructions provided by the copyright owner of the work. Such instruction may state that no further copies shall be made. Video streams may include copy protection technology that prohibits further copying. For such situations the recording function will not work and you will be notified with a message.

Data logging

Philips is committed to improving the quality of your product and enhancing the Philips user experience. To understand the usage profile of this device, this device logs some info / data to the non-volatile memory region of the device. These data are used to identify and detect any failures or problems you as a user may experience while using the device. The data stored, for example, will be the duration of playback in music mode, duration of playback in turner mode, how many times battery low was encountered, etc. The data stored do not reveal the content or media used on the device or the source of downloads. The data stored on the device are retrieved and used ONLY if the user returns the device to the Philips service center and ONLY to simplify error detection and prevention. The data stored shall be made available to user on user's first request.

Monkey's Audio decoder

1. The Monkey's Audio SDK and source code can be freely used to add APE format playback, encoding, or tagging support to any product, free or commercial. Use of the code for proprietary efforts that don't support the official APE format require written consent of the author.
2. Monkey's Audio source can be included in GPL and open-source software, although Monkey's Audio itself will not be subjected to external licensing requirements or other viral source restrictions.
3. Code changes and improvements must be contributed back to the Monkey's Audio project free from restrictions or

royalties, unless exempted by express written consent of the author.

4. Any source code, ideas, or libraries used must be plainly acknowledged in the software using the code.

5. Although the software has been tested thoroughly, the author is in no way responsible for damages due to bugs or misuse.

If you do not completely agree with all of the previous stipulations, you must cease using this source code and remove it from your storage device.

FLAC decoder

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Recycling the product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.
When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:

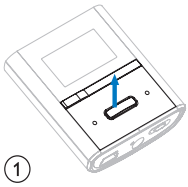
Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences on the environment and human health.

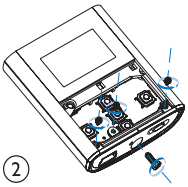
Warning

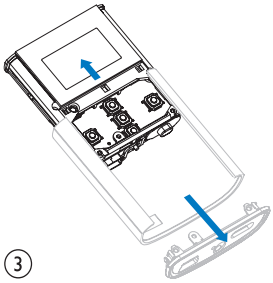
- Removal of the built-in battery invalidates the warranty and can destroy the product.
- The following removal and disposal instructions are steps that are to be performed at the end of the product's life only.

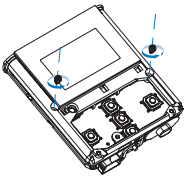
Your product contains a built-in rechargeable battery covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste.

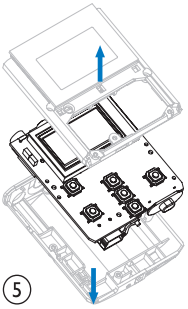
To safeguard the functionality and safety of your product, take your product to an official collection point or service center where a professional can remove or replace the battery as shown:

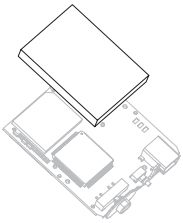

1


2


3


4


5


6

Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

Notice for the European Union

This product complies with the radio interference requirements of the European Union.

2 Your new RAGA

RAGA allows you to
- play MP3 and unprotected WMA files
- listen to FM radio
- make recordings

What's in the box

Check that you have received the following items:
Player

Earphones

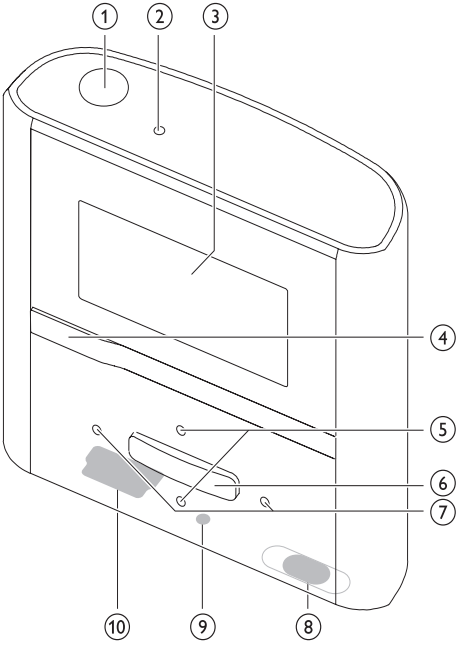
Quick start guide

Note

- The images serve as reference only. Philips reserves the right to change color/design without notice.

3 Getting started

Overview of the controls and connections



1	🎧	headphone jack
2	MIC	microphone
3		display
4	⮌	press: back one level
		press and hold: return to root menu
5	🔉 / 🔊	in play screen, press: increase/decrease the volume
		in play screen, press and hold: increase/decrease the volume quickly
		in list, press: scroll up/down
		in list, press and hold: scroll up/down quickly
6	▶II	press: play/pause/confirm
7	⏮ / ⏭	press: skip to next/previous
		press and hold: skip to next/previous quickly
		in play screen, press and hold to scan through current track
8	⏻	slide and hold: turn RAGA on/off
	🔒	slide: lock/unlock all buttons
9	RESET	press: reset RAGA
10	⇢	slide out: extend USB connector plug

Limit the volume

Caution

- Listening to loud sounds for longer than a moment can be harmful to the listener.

You can set the volume level of RAGA to limit the maximum volume output.

1. From the main menu, select **[Settings]** > **[Sound settings]** > **[Volume limit].**
2. Press the volume controls 🔉 / 🔊 to adjust the level.
3. Press ▶II to confirm.
   ↳ When you set a volume limit, RAGA can no longer exceed the set volume, even if you press the button to increase the volume 🔊.

To enable maximum volume again:

1. Select **[Settings]** > **[Sound settings]** >**[Volume limit].**
2. Set the volume limit to maximum.
3. Press ▶II to confirm.

Overview of the main menu

Menu	Mode	To
♫	Music	play digital audio tracks
📻	FM radio	listen to FM radio
🎙	Recording	create or listen to recordings
📁	Folder view	view files in folders
⚙	Settings	customize the settings of RAGA
▶	Now playing	show the current play screen

Connect and charge

RAGA has a built-in battery that can be charged through the USB port of a computer (USB cable included).

Note

- When you connect RAGA to a computer, you are briefly prompted to select:
- **[Charge & transfer]** or **[Charge & play]**.
- RAGA automatically applies **[Charge & transfer]**, if no new selection is made.

Connect RAGA to a computer

1. Connect the USB plug of the supplied USB cable to a spare USB port on your computer.
2. Connect the small USB plug of the USB cable to the small USB jack on RAGA.
3. Turn on your computer.
   ↳ RAGA charges.

Install Philips Songbird for the first time

When you connect RAGA to the PC for the first time, a pop-up window appears:

1. Select **Install Philips Songbird**.
2. Follow the on-screen instructions to complete the installation.

Note

- The installation requires you to agree to the license terms.

If the pop-up window is not displayed automatically:

1. Select **My Computer** (Windows XP / Windows 2000) / **Computer** (Windows Vista / Windows 7).
2. Right click on the **Philips GoGear** RAGA icon.
3. Select **Install Philips Songbird**.
4. Follow the on-screen instructions to complete the installation.

Note

- The installation requires you to agree to the license terms.

Install the Philips Songbird software again (after the first installation)

Important!
The Philips Songbird software installer is preloaded to RAGA.
To free memory capacity for your media content on RAGA, the installer file is automatically deleted during the first installation process.
If you want to install the software any time after the first installation, follow these instructions:

1. Connect RAGA to the computer.
2. Ensure that the computer is connected to the Internet, and then open Windows Explorer.
3. In Windows Explorer, right click on RAGA, and then select the option to install **Philips Songbird**.
   ↳ The computer downloads the installer file from the Internet.
4. Follow the on-screen instructions to complete the installation.

Battery level indication

The display indicates the approximate levels of the battery status as follows:

100%	75%	50%	25%	0%

↳ A flashing battery screen indicates that the battery is low. The player saves all settings and switches off within 60 seconds.

Note

- Rechargeable batteries have a limited number of charge cycles. Battery life and number of charge cycles vary by use and settings.
- The charging animation stops and the icon is displayed when the charging process is completed.

Tip

- You can conserve battery power and increase the play time of RAGA if you go to ⚙ > **[Display Settings]** > **[Screen off timer]** and ensure that the shortest timer setting is selected.

Software loaded on the RAGA

RAGA comes with the following software:

- **Philips Songbird** (helps you update the firmware of RAGA and transfer your media files).

Files loaded on the RAGA

The following files are loaded on RAGA:

- User Manual
- Frequently Asked Questions

4 Update RAGA

RAGA is controlled by an internal program called firmware. Newer versions of the firmware may have been released after you have purchased RAGA.
The software program called **Philips Songbird** can use your computer to check for firmware updates that are available on the Internet.
Install **Philips Songbird** on your computer (see chapter **Install software**) and follow the instructions to update (see chapter **Manually verify / update the firmware**).

Note

- Your music files are not affected by a firmware update.

Manually verify / update the firmware

1. Ensure that your computer is connected to the Internet.
2. Connect RAGA to the computer (see section **Connect and charge** for instructions).
3. On your computer, click **Start** > **Programs** > **Philips** > **Philips Songbird** to launch the Philips Songbird application.
4. Select **Tools > Updates**
   ↳ **Philips Songbird** checks for updates and installs new firmware from the Internet, if available.
5. Follow the on-screen instructions to update the firmware of RAGA.
6. Wait until the update is completed, then disconnect RAGA from the computer.
   ↳ RAGA restarts after the firmware is updated and is ready for use again.

5 Turn RAGA on and off

1 To toggle between modes on and off, slide and hold ⏻ for approximately 2 seconds.

Automatic shut-down

RAGA has an automatic shut-down feature that can save battery power.
After 10 minutes in idle mode (no music plays, no button is pressed), RAGA turns off.

1 Slide and hold ⏻ for approximately 2 seconds to turn RAGA on again.

Lock the keys

RAGA has a lock switch to prevent accidental operation.

1 To lock the buttons when you play, move the slider to position 🔒.
   ↳ All buttons except the volume keys are locked and the display shows a lock icon.

2 To unlock the buttons again, move the slider to the center position.

6 Philips Songbird

RAGA comes with the Philips Songbird software.
The Philips Songbird software helps you to:

- purchase new media (music and videos) online
- create a media library
- manage your media library
- play music and videos
- sync your media with the RAGA

When Philips Songbird is launched for the first time, choose from the following options to import media files into the Songbird media library:

- Import an existing iTunes library.
- Scan for media files in specific directories. (You can select to watch a folder, so that the files that are added or deleted there are automatically added or deleted in the Songbird media library.)

Build a media library

Use one or more of the following options to build a media library with Songbird:

Rip a CD

By default, the Philips Songbird software installs the following add-ons that are needed to rip a CD:

- CD Rip Support
- Gracenote Metadata Lookup Provider

Set up the CD rip options

1. On the computer, launch the Songbird program.
2. Select **Tools** > **Options...**.
3. Select the **CD Rip** tab, and then choose your CD rip options.
4. Click on **OK** to confirm.

Import media files from a directory

The following steps show how you can import media (music and video) files that are stored elsewhere on your computer or computer network:

1. On the computer, launch the Songbird program.
2. On the Songbird toolbar, click **File**, then select **Import Media...**.
3. Select your media (music and video) files, then click **OK**.
   ↳ The media files that you added are listed in the media library.

Tip

- If you select a folder that contains music or video files, the software scans the folder and adds all the music or video files it contains to the media library (duplicate titles are ignored).

Import iTunes media

1. On the computer, launch the Songbird program.
2. Select **Tools** > **Options...**.
3. On the Songbird toolbar, select the **Media Importer** tab, then **iTunes Import/Export**.
4. Verify your library location and options.
5. Select **Import Library**.
   ↳ The software imports the iTunes library into Songbird.

Export media to iTunes

1. On the computer, launch the Songbird program.
2. Select **Tools** > **Options...**.
3. On the Songbird toolbar, select the **Media Importer** tab, then **iTunes Import/ Export**.
4. Verify your library location and options.
5. Select **Export Library**.
   ↳ The software exports the library from Songbird to iTunes.

Get content from online sources

You can purchase content from online sources such as the following:

- 7-digital

Check the specifications of your RAGA to see what services are available to you.

Import recordings from RAGA

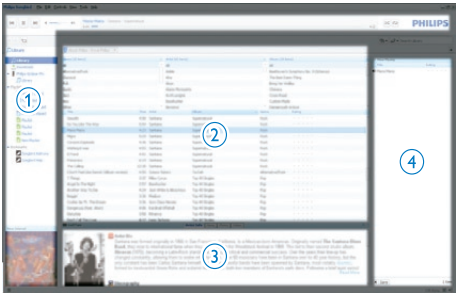
1. On the computer, launch the Songbird program.
2. On the Songbird toolbar, click **File**, then select **Import Media...**.
3. Select your recordings on RAGA, then click **OK**.
   ↳ The selected recordings are listed in the media library.

Tip

- If you select a folder that contains recordings, the software scans the folder and adds all the recordings it contains to the library (duplicate titles are ignored).

Browse your media library

The Songbird media library is structured as follows:



1. Player Pane (this is where the RAGA is displayed)
2. Library Pane (this is where you find the contents of your library)
3. Service Pane (this is where you find additional information about contents, such as playlists)
4. Information Pane (this is were you find information about the selected options)

Organize and manage your Songbird library

Let Songbird manage your media

1. On the computer, launch the Songbird program.
2. Select **Tools** > **Options...**.
3. On the Songbird toolbar, select the **Manage Files** tab.
4. Check **Allow Songbird to manage my files**.
5. Set the options on how you want to organize your media.

Remove media files from the Songbird media library

1 In the Songbird library, right click on a media file, then select **Remove**.

2 In the prompt window, click **Remove** to confirm that you want to remove the file.
   ↳ The selected file is removed from the library and from all playlists. (By default, the file is only "removed", not "deleted". The media file still exists in its original location on the computer or computer network.)

Tip

- To select multiple files on the computer (PC), press and hold **Ctrl**.
- To select multiple consecutive files, press and hold **Shift**.

Delete media

This is how to delete media files in Windows Explorer:

1 With RAGA connected to the computer, open Windows explorer.

2 Locate the media folder in RAGA.

3 Delete the media file in the same way as you would from any other location on the computer.

Let Songbird watch a folder

You can let Songbird

- monitor the contents of a folder, and
- add or remove the media from your library to match the folder contents.

1 On the computer, launch the Songbird program.

2 Select **Tools** > **Options...**.

3 On the Songbird toolbar, select the **Media Importer** tab, and then **Watch Folders**.

4 Select the folder that you want Songbird to watch for changes.
   ↳ The selected folder is watched and Songbird matches the library content to the content of the folder.

Fetch album artwork

Choose from these options to fetch the artwork for your albums:
On the computer, launch the Songbird program.

- On the Songbird toolbar, select **Tools** > **Get Album Artwork**.
   ↳ If no titles are selected, Songbird fetches the artwork for all titles in the library.
- Right-Click on selected titles.
   ↳ Songbird fetches the artwork for all selected titles.

Playlists

By default, the Philips Songbird software installs the following add-ons that are needed to rip a CD:

- CD Rip Support
- Gracenote Metadata Lookup Provider

Create a playlist

1 On the computer, launch the Songbird program.

2 Choose from these options to create a new playlist:
- On the Songbird toolbar, select **File** > **New Playlist**.
- Right-click on the left hand sidebar, and then choose **New Playlist**.
- Click the **+** symbol at the bottom of the left hand side Service Pane.

↳ A new playlist appears in the Service Pane.

3 Enter a name for the new playlist.

Add titles to a playlist

1 On the computer, launch the Songbird program.

2 Select one or more titles.

3 Choose from these options to add the selected titles to a playlist:
- Drag and drop the selected titles to the playlist in the Service Pane.
- Right-click on the selection, and then select **Add to Playlist** > **The_name_of_your_playlist**.

↳ All selected titles are added to the playlist.

Remove titles from a playlist

1 On the computer, launch the Songbird program.

2 Select a playlist.

3 Right-click on the title that you want to remove, and then **Remove**.

↳ The selected title is removed from the playlist.

Change the look of the Songbird library

You can change the design and color scheme of the Songbird library. We call this "changing feathers". New feathers are installed and managed like add-ons.

Find new feathers

1 On the computer, launch the Songbird program.

2 On the Songbird toolbar, select **View** > **Feathers** > **Get More Feathers…**.

↳ The software searches for new feathers.

↳ Follow the on-line instructions to install the new feathers.

Format RAGA (erase all music and data)

Philips Songbird has a Format feature that you can use to format RAGA and erase all your files from the internal memory.

Caution

- The following procedure erases all your files that are stored on RAGA.

1 Install **Philips Songbird** on your computer (see chapter **Install software**), and then launch the program.

2 In the **Philips Songbird** player pane, click on RAGA.

3 In the library pane, click on the tab called **Tools**.

4 In the tools pane, click on **Format device**.

5 Follow the on-screen instructions to complete the repair procedure.

Repair RAGA (restore factory settings)

Philips Songbird has a repair feature that you can use to restore RAGA to the factory settings. Before you proceed, back up your files that are stored on RAGA if possible.

Caution

- The following procedure erases all your files that are stored on RAGA, and restores the factory settings.

1. Install **Philips Songbird** on your computer (see chapter **Install software**), and then launch the program.
2. In the **Philips Songbird** menu bar (at the top), click on the **Tools** pull-down menu and then select **Repair My RAGA**.
3. Follow the on-screen instructions to complete the repair procedure.

7 Music

Listen to music

1 From the main menu, select ♫ to enter the music mode.
2 Navigate the sub-menus to select the music track.
3 Press ▶II to toggle between play and pause.
   - Press ⮌ to go back one level.
   - Press and hold ⮌ to return to the main menu.

Navigate inside a music track

1 While you listen to a music track, press ⏮ / ⏭ to quickly navigate forward / backwards inside the track.

Find your music

From the main menu, select ♫ to enter music mode.
RAGA offers the following menu options:

[All songs]
- Alphabetically listed tracks

[Artists]
- Alphabetically listed artists
- Alphabetically listed albums
- Tracks listed in album order

[Albums]
- Alphanumerically listed albums
- Tracks listed in album order

[Playlists]
- **[Playlist-on-the-go]**
- Tracks listed in playlist order

[Audiobooks]*
- Books listed in alphanumerical order

Note

- * You can purchase audiobooks at online stores such as audible.com.
- RAGA handles the audiobooks like music files.

Delete one or more music tracks

Use the **Philips Songbird** software to sync your media files. Alternatively, you can delete music in Windows Explorer:

1 Connect RAGA to the computer.
2 In Windows Explorer, locate the music folder in RAGA.
3 Delete the music as you normally would on the computer.

Note

- Alternatively, you can select ■ from the main menu and find your music files in folder view.

English

8 Radio

Listen to FM radio

1 From the main menu, select to enter radio mode.
   ↳ The earphones cable acts as FM antenna.

Tip

- Radio play stops when you switch to another mode or when you turn off RAGA.

Manually tune a radio station

While in mode, you can manually tune to a radio station:

1 To search for the next stronger signal, press and hold / .
2 To fine tune the frequency, briefly press / .

Auto-tune radio station presets

The auto-tune feature of RAGA helps you find radio stations and save them under the preset numbers.

1 While in mode with the earphones connected, select a select **[Auto tune]**.
   - If prompted, select **[Yes]** to confirm.
   ↳ The radio automatically tunes radio stations and saves the frequencies to presets. There are 20 presets available.
   - To stop auto tuning, press .
   - To return to the main menu, press and hold for 2 seconds.

Play a preset radio station

1 While in mode, select preset.
2 Press or to change to another preset.
3 To search for the next stronger signal, press and hold or for 2 seconds.
   - To return to the main menu, press and hold for 2 seconds.

Note

- To play preset radio stations, you first have to store radio stations under presets.

9 Recordings

Record from FM radio (Available with some versions only!)

1 From the main menu, select to see the radio mode.
2 Navigate the menu to select **[Start FM radio recording]**.
- Press ▶II to toggle between pause and record.

3 Press ⮌ to stop.
4 Press ▶II to save the recording or press ⮌ to cancel.
↳ Recordings are saved on the player. (Filename format: FMRECXXX.WAV, where XXX is the recording number that is generated automatically.)

Tip

- You can find your recordings under **[Recordings Library] > [FM Radio]**.

Record audio/voices

This is how you can record audio/voices with the built-in microphone (see section **Overview** for location of built-in microphone):

1 From the main menu, select > **[Start voice recording]**.
- Press to toggle between pause and record.

2 Press ⮌ to stop.
3 Press to save the recording or press ⮌ to cancel.
↳ Recordings are saved on the player. (Filename format: VOICEXXX.WAV, where XXX is the recording number that is generated automatically.)

Tip

- You can find your recordings under **[Recordings Library] > [Voice]**.

Listen to recordings

Listen to FM radio* recordings:

1 From the main menu select > **[Recordings library]** > **[FM radio]**.
2 Select a recording.
3 Press ▶II to play your recording.

Note

- * FM radio recording feature is available with some versions only. Refer to the on-screen menu of RAGA to find out which features are available to you.

Listen to voice/audio recordings:

1 From the main menu, select > **[Recordings Library]** > **[Voice]**.
2 Select a recording.
3 Press ▶II to play your recording.

English

Upload your recordings to a computer

Use the **Philips Songbird** software to sync your media files.
Alternatively, you can transfer recordings in Windows Explorer:

1. Connect RAGA to the computer.
2. In Windows Explorer, open RAGA.
3. Select the folder **Recordings** > **Voice** or **FM radio***.
4. Copy and paste the recordings to any location on the computer.

Note

- * FM radio recording feature is available with some versions only. Refer to the on-screen menu of RAGA to find out which features are available to you.

Delete recordings

This is how to delete recordings in Windows Explorer:

1. Connect RAGA to the computer.
2. In Windows Explorer, locate the folder **Recordings** > **Voice** or **FM radio***.
3. Delete the recordings as you normally would on the computer.

Note

- * FM radio recording feature is available with some versions only. Refer to the on-screen menu of RAGA to find out which features are available to you.

Use the RAGA to carry data files

This is how you use RAGA to store and carry data files:

1. Connect RAGA to the computer (for instructions see section **Connect and charge**).
2. On the computer in Windows Explorer,copy the data files and paste them to RAGA.

Tip

- Use the computer to transfer your data files back to the computer, or delete your data files from RAGA.

10 Settings

This is how to customize RAGA:
From the main menu, select ✿ to enter the settings mode.
Navigate the settings menu as follows:

1 Press / to select an option.
2 Press ▶II to confirm a selection and go to the next level (when available).

- Press ⮌ to return to the previous level.
  - Press and hold ⮌ to exit the ✿ menu.

In the ✿ menu, the following options are available:

Settings	Options menu	Sub-options menu	
Play mode	Repeat	• Repeat off • Repeat 1 • Repeat all (default)	
	Shuffle	• Shuffle off (default) • Shuffle all	
Sound settings	FullSound	• Off • On* (default)	
	Equalizer	• Off (default) • Rock • Funk • Hip hop	• Jazz • Classical • Techno • Custom
	Volume limit	• Off (default) • Set	
Sleep timer	• Time left: [x] minutes • Off (default) • Set		
Display settings	Theme	• Black (default) • Blue • Red	
	Screen off timer	• 15 sec. (default) • 30 sec. • 45 sec. • Always on	

Settings	Options menu	Sub-options menu	
Language	• Czech • Danish • Greek • English • (default)German • Spanish • French • Italian • Hungarian • Dutch	• Norwegian • Polish • Portuguese • Portuguese (Brazilian) • Russian • Slovak • Finnish • Swedish • Turkish • Simplified Chinese	• Traditional Chinese • Japanese • Korean • Thai (some versions only) • Hebrew (some versions only) • Arabic (some versions only)
Information	Capacity Free space Firmware version Model Support site		
Factory settings	Restore factory settings? (Files are not affected.)	• Yes • No	

*Equalizer deactivates when FullSound is selected.

11 Technical data

Power
Power supply: 220 mAh Li-ion polymer internal rechargeable battery
Play time[1] (music): 22 hours

Software
Philips Songbird: to update firmware and transfer music

Connectivity
Headphone 3.5 mm
USB 2.0 High speed

Sound
Channel separation: 45 dB
Frequency Response: 20 - 18,000 Hz
Output power: 2 x 2.4 mW
Signal to noise ratio: > 84 dB

Audio playback
Supported formats:
MP3:
MP3 bit rates: 8 - 320 kps and VBR
MP3 sample rates: 8, 11.025, 16, 22.050, 32, 44.1, 48 kHz
WMA:
WMA bit rates: 10 - 320 kbps CBR, 32 - 192 kbps VBR
WMA sample rates: 8, 11.025, 16, 22.050, 32, 44.1, 48 kHz
FLAC:
FLAC sample rates: 1 - 1,048 kHz
APE:
APE sample rates: 8 - 48 kHz
WAV

Storage media
Built-in memory capacity[2]:
SA2RGA02K 2GB NAND Flash
SA2RGA04K 4GB NAND Flash
SA2RGA08K 8GB NAND Flash

Music transfer[3]
Songbird (sync)
Windows Explorer (drag and drop)

Display
Color LCD 128 x 64 pixels

Note

- [1] Rechargeable batteries have a limited number of charge cycles. Battery life and number of charge cycles vary by use and settings.
- [2] 1GB = 1 billion bytes; available storage capacity is less. Full memory capacity may not be available as some memory is reserved for the player. Storage capacity is based on 4 minutes per song and 128 kbps MP3 encoding.
- [3] Transfer speed depends on operating system and software configuration.

System requirements

- Windows® XP (SP2 or above) / Vista / 7
- Pentium III 800 MHz processor or higher
- 512 MB RAM
- 500 MB hard disk space
- Internet connection
- Windows® Internet Explorer 6.0 or later
- CD-ROM drive
- USB port

12 Glossary

B

Bit rate
Bit rate is the number of bits that are conveyed or processed per unit of time. The bit rate is usually measured in some multiple of bits per second (kilobits per second: kbps). The term bit rate is a synonym for data transfer rate (or simply data rate).

C

Compression
In audio terms, this is a process of temporarily or permanently reducing audio data for more efficient storage or transmission. A temporary reduction in file size is called 'non-lossy' compression, and no information is lost. A permanent reduction in file size (such as with MP3 files) is called 'lossy' compression, and involves discarding unnecessary information which is irretrievably lost.

D

Decibel (dB)
A unit of measure used to express relative difference in power or intensity of sound.

F

FM (Frequency Modulation)
In radio broadcasting: a method of modulation in which the frequency of the carrier voltage is varied with the frequency of the modulation voltage.

Frequency Response
Is the range of frequencies that a speaker reproduces, lowest frequency to the highest. While the optimal normal is 20-20,000 Hz (Hertz), the range of human hearing for individuals is often much more restricted. A good full-range speaker system however, reproduces as much of this range as possible to cover all variations. Individual drivers are limited to reproduce only that part of the spectrum for which they were made, so their response is limited, but still a necessary point to consider when designing a complete sound system.

FullSound
FullSound™ is an innovative technology designed by Philips. FullSound™ faithfully restores sonic details to compressed music, enhancing it to provide a full sound experience without any distortion.

L

LCD (Liquid Crystal Display)
Probably the most common way to show visual information on non-computer electronic equipment.

Lossless compression
A system for reducing the number of data bits (density) in a musical signal without corrupting the original.

M

MP3
A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. With the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

MSC [Mass Storage Class]

The USB mass storage device class (or USB MSC or UMS) is a set of computing communications protocols that provide an interface to storage devices. Devices that support this standard are referred to as MSC (Mass Storage Class) devices.

MTP [Media Transfer Protocol]

Media Transfer Protocol supports the transfer of music and video files to portable audio and video players.

R

Rip (ripping)

Using a software program that "grabs" digital audio from a compact disc and transfers it to a computer hard drive. The integrity of the data is preserved, because the signal does not pass through the computer sound card, and need not be converted to an analog format. The digital-to-digital transfer creates a WAV file that can then be converted into an MP3 file.

S

SuperScroll

SuperScroll™ is a navigation feature of the double-action search keys of the product. SuperScroll™ allows easy speed control when scrolling through large libraries to swiftly find items within large libraries. Longer press of the button results in faster scroll speed.

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